

CLAIMS

1. Compositions including organic and/or inorganic fillers and at least one comb-structure dispersing (co)polymer, characterized in that the comb polymer is obtained in the form of beads.
2. Compositions according to claim 1, characterized in that the comb polymer comprises a main chain to which side chains having hydrophilic and/or hydrophobic units of the ethylene oxide and/or propylene oxide and/or alkyl types with lengths of 2 to 500 units are attached.
3. Compositions according to any of claims 1-2, characterized in that the comb polymer comprises a main chain to which side chains having units of the hydrophilic and/or hydrophobic types with lengths of 2 to 200 units are attached.
4. Compositions according to any of claims 1-3, characterized in that the comb polymer is a polymer partially based on methacrylate of methoxy polyethylene glycol and/or polyethylene glycol mono allyl ether.
5. Compositions according to any of claims 1-4 characterized in that the comb polymer is a copolymer based on methacrylate of methoxy polyethylene glycol and/or polyethylene glycol mono allyl ether and acrylic acid and/or methacrylic acid and/or maleic acid and/or their salts.
6. Compositions according to any of claims 1-5, characterized in that the comb polymer is obtained in the form of beads having an apparent specific gravity higher than 0.5, preferably higher than 0.7.

7. Use of comb-structured bead-form polymers as plasticizers, superplasticizers, water reducers, high-reduction water reducer agents in compositions that include a hydraulic binder, such as concrete, mortar, slag, slurry, gypsum.
8. Use of comb-structured bead-form polymers as dispersing agents for organic and/or inorganic fillers in compositions such as paints, coatings, and detergent, softening or cosmetic compositions.
9. Use of comb-structured bead-form polymers according to claims 7-8, characterized in that the comb polymer comprises a main chain to which side chains that include hydrophilic and/or hydrophobic units of the ethylene oxide and/or propylene oxide and/or alkyl types with lengths of 2 to 500 units are attached.
10. Concrete, mortar, slag, slurry, gypsum, characterized in that they are made using at least one composition according to any of claims 1-6.